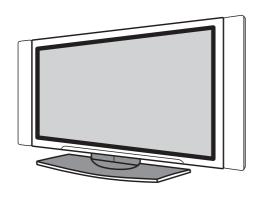
HITACHI

SERVICE MANUAL

SM008

28LD5200E (PW1L)



Caution -

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this HITACHI LCD monitor.

Be sure to read cautionary items described in the manual to maintain safety before servicing.

Service Warning

- 1. Since Panel Module is made of glass, handling the broken Module shall be taken care sufficiently in order not to be injured.
- 2. Replacing work shall be started after the Panel Module and the AC/DC Power supply become sufficiently cool.
- 3. Special care shall be taken to the display area in order not to damage its surface.
- 4. The Panel Module shall not be touched with bare hand to protect its surface from stains.
- 5. It is recommended to use clean soft gloves during the replacing work in order to protect not only the display area of the Panel Module but also a serviceman himself.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

LCD Television

CAUTION FOR SAFETY

Please read this page before repairing the monitor.

This page explains the following items to ensure the safety of set and prevent accidents during repair work.

• We explain by symbols what damage or injury may occur if errors are made.

	This symbol means "possible to cause death or serious injury"
⚠ Caution	This symbol means "possible to cause damage or something may break"

• We symbols below have the following meanings.

Ŵ	This symbol means "CAUTION"	0	This symbol means "MUST"
A	This symbol means "POSSIBLE to ELECTRIC SHOCK"	\Diamond	This symbol means "DO NOT"

MARNING

■ Should follow instructions.



Indicates cabinet, chassis and parts by label, which need special attention. Please follow notes and Safety Instructions of User's Manual.

■ Prevent electric shock.

Please take care during working because monitor has high voltage part and power supply part.



Possible to die if you touch these places by mistake.

Please disconnect power plug during overhaul, reassembly or changing parts. You could die or suffer from electric shock if you touch live part.

■ Use recommended components.



Please use same characteristic component, which is same as original for your safety and reliability. Especially those marked by \triangle in parts list and circuit diagram.

It may cause electric shock or fire if you use non-recommended component.

■ Should keep same style of wiring or component.



Monitor uses tubes or tapes, which are insulators, and some components are kept a distance from surface of PWB for safety.

Internal leads kept from hot part or high voltage part by clamper or styling, so please return to original condition to prevent electric shock or fire.

■ Should do safety check when finished.

Every part (removed screws, component and wiring) should be returned to previous condition.



Check around repair for possible damage by mistake and measure the insulated impedance by meg-ohm meter. Confirm the value of impedance, that value is more than 4M ohm.

It could cause electric shock or fire if this value is less than 4M ohm.

■ Nobody can check and repair the code and combination circuit of HDCP.



Never remove the shield case, which is attached to the code and combination circuit of HDCP.

PRECAUTIONS

• How to clean the LCD screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.

To prevent scratching or damaging the LCD screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

• How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

1. Features

• Large-screen, high-definition LCD panel

The 28-inch color LCD panel, with a resolution of 1280 (H) x 768(V) pixels, creates a high-definition, large-screen (aspect ratio : 15:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

• High Performance Digital Processor

A wide range of personal computer signals can be handled, from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA. (RGB Analog input)

• Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Power saving system

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available.

When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

• TruBass SRS(•)

TruBass, SRS and (●)® symbol are trademarks of SRS Labs,Inc.

TruBass technology is incorporated under license from SRS Labs, Inc.

- One mini D-sub terminal and one DVI-D terminal for RGB input
 The D-sub terminal can also receive the RGB-component by On-Screen Display control.
- One composite/S.video input terminal and two component video input terminals.
 One component input is possible to switch to RGB signal input from the Menu screen.
- One SCART terminal for the signal of the European standard.
 It operates as composite/S.video input and RGB input terminal, or composite video output terminal.
- One composite video output terminal as a monitoring output.
- Various input/output terminals.
- Tuner and TELETEXT receiver.
- High performance type of the remote control.

2. Specifications

	Dianley	
Panel	Display dimensions	Approx. 28 inches (599.04 (H) x 359.42 (V) mm)
	Resolution	1280 (H) x 768 (V) pixels
Net dimension	ns	854 (W) x 516 (H) x 277 (D) mm
Net weight		21.9kg
Ambient	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 60°C
conditions	Relative humidity	Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)
Power supply		AC100 - 240V, 50/60Hz
Power consum	nption/at standby	155W / <1W
Audio output		$12W + 12W (6\Omega)$
(RGB input)		
	Input terminals	RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)
Input signals	Video signals	0.7 V/1.0 Vp-p, analog RGB (Recommended Signal) 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60
	Sync signals	H/V separate, TTL level [2K Ω] H/V composite, TTL level [2K Ω] Sync on green, 0.3 Vp-p [75 Ω]
(Video input)		
Input signals	Input terminals	AV1: composite video input terminal (RCA) AV1: Y PB PR video input terminal (RCA) AV1: L/R audio input terminal (RCA) AV2: composite video input terminal (RCA) AV2: Y/G PB/B PR/R video input terminal (RCA) AV2: L/R audio input terminal (RCA) AV3: composite video input terminal (RCA) AV3: S video input terminal (RCA) AV3: S video input terminal (RCA) AV3: L/R audio input terminal (RCA) AV3: L/R audio input terminal (RCA) AV4: composite video / S video / RGB / L/R audio input terminal (Scart)
•	Video signals	AV1: PAL, SECAM, NTSC3.58, NTSC4.43 AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 AV2: PAL, SECAM, NTSC3.58, NTSC4.43 AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB AV3: PAL, SECAM, NTSC3.58, NTSC4.43 AV4: PAL, SECAM, NTSC3.58, NTSC4.43 AV4: RGB
Video output S	Signal	OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) AV4: composite video / L/R audio output terminal (SCART)
(RF input)		
	Input terminals	ANT: 75Ω Unbalanced
Input signals	RF Video System	PALB, G, H/I/D, K SECAMB, G/D, K/K1

Applicable video signals for each input terminal

Terminal		RCA/SCART			D.	VI	D-sub				
Signal	CVBS	S-video	Component	RGB	PC	STB	RGB	Component			
AV1	0		0								
AV2	0		0	0							
AV3	0	0									
AV4	0	0		0							
RGB1					0	0					
RGB2							0	0			

(O:Available)

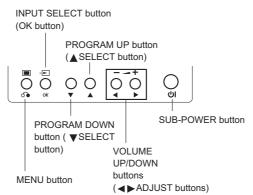
3. Component names

[Main unit]

Control panel

These buttons are located on the top.





() indicates the function while the MENU is displayed on the screen.

[Remote Control]



CLE-958

4.Adjustment

• How to get to Adjustment mode

Using the front control buttons with the set turned off (standby) can activate it.

Press the SUB-POWER(⊕) button, INPUT SELECT(⊕) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on in adjustment mode with OSD.

• Changing data and Selecting Adjustment code

When the set is in adjustment mode, the cursor \triangleleft , \triangleright , \blacktriangle , \blacktriangledown and OK buttons of the remote control or front panel may be used as the adjustment keys.

- ▲, ▼ buttons are used for selecting adjustment code.
- ◀, ▶ buttons are used for changing data values.

OK button is used for confirming the data.

After finishing the necessary adjustment press MENU button. Adjustment mode is released and the set returns to normal condition.

• Memory Initialize operation

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

Procedure

- (1) Enter Adjustment Mode.
- (2) Select MEMORY INIT adjustment code (No.704) and change the data value from 0 to 1.
- (3) Activate MEMORY INIT by pressing OK button for more than 3 seconds.
- (4) Select No.374 and change data value from 1 to 0.
- (5) Check that the receiving channel goes to AV1. Unit is set to preset values.

• Service adjustment items by I²C-bus control

O : Should be adjusted Δ : Should be followed previous data

	Function	5 COILLIOI	1		Δ : Should		ed previous omponer	
ADJ.			Maximum	L	Formatter			
No.	Adjustment Items	Mode	Value	Default	PWB	PWB	PWB	PANEL
	R DRIVE1 [TV/VIDEO/DSUB-COMP]	COOL	255	230	Δ			0
	G DRIVE1 [TV/VIDEO/DSUB-COMP] B DRIVE1 [TV/VIDEO/DSUB-COMP]	COOL COOL	255 255	230 255	Δ			0
	R DRIVE2 [TV/VIDEO/DSUB-COMP]	NORMAL	255	230	Δ			0
	G DRIVE2 [TV/VIDEO/DSUB-COMP]	NORMAL	255	230	Δ			0
	B DRIVE2 [TV/VIDEO/DSUB-COMP]	NORMAL	255	230	Δ			0
	R DRIVE3 [TV/VIDEO/DSUB-COMP]	WARM	255	230	Δ			0
	G DRIVE3 [TV/VIDEO/DSUB-COMP]	WARM	255	230	Δ			0
	B DRIVE3 [TV/VIDEO/DSUB-COMP] R DRIVE4 [TV/VIDEO/DSUB-COMP]	WARM	255 255	230	Δ			0
	G DRIVE4 [TV/VIDEO/DSUB-COMP]	BLACK & WHITE BLACK & WHITE	255	230	Δ			0
	B DRIVE4 [TV/VIDEO/DSUB-COMP]	BLACK & WHITE	255	230	Δ			0
	R DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	230	Δ			0
	G DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	230	Δ			0
	B DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	255	Δ			0
	R DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB] G DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB]	NORMAL	255	230	Δ			0
	B DRIVE2 [DVI-PC/DVI-S1B/DSUB-RGB]	NORMAL NORMAL	255 255	230	Δ			0
	R DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	230	Δ			0
	G DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	230	Δ			0
20	B DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	230	Δ			0
	R DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB]	BLACK & WHITE	255	230	Δ			0
	G DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB]	BLACK & WHITE	255	230	Δ			0
	B DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB] Black Level(RGB_AMP)	BLACK & WHITE TV/VIDEO	255 254	230	Δ			0
	Black Level(RGB_AMP)	PC PC	254	127				
	Reference Amplitude(RGB_AMP)	TV/VIDEO	254	127				
27	Reference Amplitude(RGB_AMP)	PC	254	127				
	Display for Max. Amplitude Level	Main	-	-				
	Display for Max. Amplitude Level	SUB	-	-				
	SUB_CONTRAST(RF) SUB_CONTRAST (AV1)	MAIN MAIN/SUB COMPOSITE mode	15 15	7				
	SUB_CONTRAST (AV1) SUB_CONTRAST(RF)	SUB SUB	15	7				
	SUB_CONTRAST (AV4)	MAIN/SUB COMPOSITE mode	15	7				
34	SUB_COLOR(VIDEO-PAL/SECAM)	MAIN	15	0				
35	SUB_COLOR(RF-PAL/SECAM)	MAIN	15	3				
	SUB_COLOR(VIDEO-NTSC)	MAIN	15	0				
	SUB_COLOR(RF-NTSC)	MAIN	15	11				
	SUB_COLOR(VIDEO-PAL/SECAM) SUB_COLOR(RF-PAL/SECAM)	SUB SUB	15 15	3				
	SUB_COLOR(VIDEO-NTSC)	SUB	15	0				
	SUB_COLOR(RF-NTSC)	SUB	15	11				
42	TINT(VIDEO)	MAIN	63	33	Δ	0		
	TINT(RF)	MAIN	63	33	Δ	0		
	TINT(VIDEO)	SUB	63	33	Δ	0		
	TINT(RF) S_B-Y_ADJ	SUB MAIN	63 15	33 8	Δ	0		
	S R-Y_ADJ	MAIN	15	8				
	S_B-Y_ADJ	SUB	15	8				
	S_R-Y_ADJ	SUB	15	8				
	BPF_Q (4.43MHz)	MAIN	3	3				
$\overline{}$	BPF_f0 (4.43MHz)	MAIN	3	1				
	Y_DL (4.5MHz) For Asia Y_DL (5.5MHz PAL/NTSC4.43) For Asia	MAIN MAIN	10 10	5				-
	Y_DL (5.5MHz SECAM) For Asia	MAIN	10	0				
	Y_DL (6.0PAL/NTSC4.43) For Asia	MAIN	10	9				
	Y_DL (6.0SECAM) For Asia	MAIN	10	9				
	Y_DL (VIDEO PAL/NTSC4.43)	MAIN	10	6				
	Y_DL (VIDEO SECAM)	MAIN	10	8				
	Y_DL (VIDEO NTSC)	MAIN	10	6				-
61	BELL_f0 Y OUT LEVEL (VIDEO)	MAIN MAIN	63	13				
	Initialize function for EEPROM of Video PWB board		1	0				
63	Y_OUT_LEVEL (TEXT)	MAIN	63	0				
	C_OUT_LEVEL (VIDEO)	MAIN	63	21				
	Check condition of EEPROM of Video PWB board C OUT LEVEL (TEXT)	0:Normal, 1:Abnormal(Fail or no assembly)	1 63	-				
	C_OUT_LEVEL (TEXT) Y OUT_LEVEL (TEXT)	MAIN SUB	63 63	12				
	Y_OUT_LEVEL (VIDEO)	SUB	63	13				
	Dispersion Time of Sustain current 0: 2 Times, 1: 4 times	For Dynamic (Day) mode	1	0				
	C_OUT_LEVEL (TEXT)	SUB	63	7				
	C_OUT_LEVEL (VIDEO)	SUB	63	21				
	Dispersion Time of Sustain current 0: 2 Times, 1: 4 times	For Natural (Night) mode	1	1				
	BPF_Q (4.43MHz) BPF_f0 (4.43MHz)	SUB SUB	3	3				
	Y_DL (4.5MHz) For Asia	SUB	10	5				
	Y_DL (5.5MHz PAL/NTSC4.43) For Asia	SUB	10	2				
77	Y_DL (5.5MHz SECAM) For Asia	SUB	10	0				
	Y_DL (6.0PAL/NTSC4.43) For Asia	SUB	10	7				
	Y_DL (6.0SECAM) For Asia	SUB	10	10				
	Y_DL (VIDEO PAL/NTSC4.43) Y_DL (VIDEO SECAM)	SUB SUB	10	8				
	Y_DL (VIDEO SECAM) Y_DL (VIDEO NTSC)	SUB	10	5				
	BELL_f0	SUB	1	0				
	C_TRAP_SW (COMB=OFF-PAL/NTSC4.43/NTSC3.58)	MAIN	1	0				
	C_TRAP_SW (COMB=OFF-PAL/NTSC4.43/NTSC3.58)	SUB	1	0				
	MVM(VIDEO)	-	1	0				
	AFC_GAIN (AV0)	-	3	0				-
	AFC_GAIN (AV1)	-	3	0				
	AFC GAIN (AV2)							1
89	AFC_GAIN (AV2) AFC_GAIN (AV3)	-	3	0				
89 90	AFC_GAIN (AV2) AFC_GAIN (AV3) AFC_GAIN (AV4)	-						
90 91 92	AFC_GAIN (AV3)	- - -	3	0				

						O : Should Δ : Should			oue dat
	Function							omponer	
ADJ.	Adjustment Items	Mode	1	Maximum	Default	Formatter	VIDEO	TUNER	LCD
No.	•	Wode	Ц	Value		PWB	PWB	PWB	PANE
	S_GP S_V_ID	-	Н	3	0				-
	S_V_ID BELL/HPF		Н	3	3				
		MAIN	Н	15	8				
		MAIN	П	15	8				
		SUB		15	8				
		SUB	Ц	15	8				<u> </u>
		MAIN MAIN	Н	15 15	10 5				-
		MAIN	Н	3	1				
		MAIN	Н	3	1				
		MAIN		3	1				
		MAIN	Ц	3	1				
		MAIN	Н	3	2				-
		MAIN SUB	Н	3 15	9				_
		SUB	Н	15	5				
		SUB	П	3	1				
		SUB		3	1				
		SUB	Ц	3	1				
		SUB SUB	Н	3	2				├
		SUB	Н	3	2				
117		MAIN	Н	1	0				
118		SUB	П	1	0				
		MAIN/SUB	П	1	1				
		MAIN	Ц	1	0				<u> </u>
	- ()	SUB SUB	Н	1	0				\vdash
		MAIN	Н	1	0				\vdash
		SUB	Н	1	0				\vdash
125	P/N ID	MAIN	Ц	1	0				
		SUB	Ц	1	0				
	Y/C_SEP_MODE (COMB=OFF-PAL)	-	Н	3	0				
	Y-Pf0 Y-EQ GAIN	-	Н	3	0				-
	Y-EQ/N.C_LIM	<u>-</u>	Н	3	0				
	Y-LPF	-	Н	1	0				
	V-EMPH_GAIN	-		7	3				
	V-EMPH_N.L	-	Ц	7	3				
	V-EMPH_CORE D RANGE	-	Н	1	0				-
		MAIN NTSC mode	Н	15	9				
		MAIN NTSC mode	Н	15	6				
		MAIN NTSC mode	П	7	5				
		MAIN NTSC mode	Ц	31	31				
		MAIN NTSC mode	Ц	3	0				
141		MAIN NTSC mode MAIN NTSC mode	Н	7	3				
		MAIN NTSC mode	Н	1	1				
		MAIN NTSC mode	Н	1	0				<u> </u>
		MAIN NTSC mode		3	1				
	CNRK		Ц	11	1				
	CNRINV		Н	3	0				_
	CNRLIM YPFG		Н	15	1 8				_
		480i/576i	Н	3	2				
		480p/576p	П	3	2				
	SEPA_LEVEL	1080i_50	П	3	2				
	SEPA_LEVEL	1080i_60/720p	Ц	3	2				<u> </u>
	AUTO_FM/AM(D11-D8) AUTO FM/AM(D7-D0)	-	Н	15 254	2 189				
	AUTO_FM/AM(D7-D0) A2_THRESHOLD(D11-D8)	-	Н	254 15	189				\vdash
	A2_THRESHOLD(D7-D0)	-	H	254	112				
158	PRE_AM	Except 4.5MHz (Except Dual/Stereo mode)	Ц	254	17				
	VOL_SCART1 (D15-D8)	-	Ц	254	115				
	VOL_SCART1 (D7-D5)	-	Н	7	0				<u> </u>
	PRE_SCART PRE_FM	- 4.5MHz(JAPAN)	Н	254 254	31 34				-
		4.5MHz(JAPAN) 4.5MHz(Except BTSC-SAP mode)	Н	254	32				
	=	4.5MHz(BTSC-SAP)	Н	254	60				
165	PRE_FM	4.5MHz(Except KOREA-Dual/Stereo mode)	Ц	254	19				
		4.5MHz(KOREA-Dual/Stereo)	Ц	254	34				
		Except 4.5MHz(Except Dual/Stereo mode)	Н	254	17				
	PRE_FM PRE_NICAM	Except 4.5MHz(Dual/Stereo mode)	Н	254 254	27 57				-
	Screen Saver-Picture shift amount 0:1pixel 1:2pixel 2:3pixel		Н	254	0				\vdash
	Thermo sensor function available or not 0:None,1:Yes		П	1	0				
172	Video Input function available or not at RGB1 & RGB2 mode	0:Not available, 1:Available	П	1	1				
	Screen Saver-Picture shift direction 0:dia 1:cross 2:up/down 3:left/right		Ц	3	0				
	AUDIO Function available 0:NO,1:YES Remote Function available 0:NO,1:YES		Н	1	1				₩
		0:Change 1: Don't Change	Н	2	0				\vdash
	DVI-STB/RGB-COMPONENT Function available 0:NO,1:YES	go Sont Shango	Н	1	0				
178	Dynamic Backlight function 0:No, 1:Yes	For LCD model	П	1	1				
179	ISM Control for WVGA		Д	1	1				
		RS232C	Ц	1	0				
		For Dynamic mode or Day mode (For LCD model only)	Н	1 2	0				-
	AGC_LEVEL AGCL TEXT H sync delay	ALL Mode	Н	3 127	0				\vdash
	TEXT V sync delay	-	Н	127	50				
	TEXT_H_POSITION		П	254	42				
	TEXT_V_POSITION	-	П	254	38				
		For AFC at TV mode		254	25				

						O : Should Δ : Should			ious dat
	Function		_					Componer	_
ADJ. No.	Adjustment Items	Mode		Maximum Value	Default	Formatter PWB	VIDEO PWB	TUNER PWB	LCD
	Upper Limits Value for Sync Detect of 2ms interval	For AFC at TV mode	$^{+}$	254	40	1 ***	1 110	1 ***	1 / AINE
189	Lower Limits value for Sync Detect of 2ms interval	For Free Running at TV mode	t	254	30				
	Upper Limits Value for Sync Detect of 2ms interval	For Free Running at TV mode	\perp	254	45				
191	Lower Limits value for Sync Detect of 2ms interval	For AUTO OFF at TV mode	\perp	254	25			Ь—	<u> </u>
192 193	Upper Limits Value for Sync Detect of 2ms interval	For AUTO OFF at TV mode	+	254 254	35 30	-		—	-
_	Lower Limits value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval	For Free Running at AV mode For Free Running at AV mode	+	254	45			\vdash	
	Counting time for discrimination of fV	-	+	31	2		_	—	
	Dispersion Time of Sustain current 0: 2 Times, 1: 4 times	For PC mode	T	1	1				
197	Counting time for discrimination of SYNC	-	T	31	2				
	Input Source of fV/fH judghment(0:M30625/TA1370)	Component Mode		1	0				
	Counting time for discrimination of fV(M30625/TA1370)	-	Ш	31	2			<u> </u>	
	Y_DL (6.5MHz PAL/NTSC4.43) For Asia	Main	\perp	10	7			Ь—	<u> </u>
	Y_DL (6.5MHz SECAM) For Asia	Main	+	10	10	ļ	-	—	-
	Y_DL (6.5MHz PAL/NTSC4.43) For Asia Y_DL (6.5MHz SECAM) For Asia	Sub Sub	+	10 10	4 10				<u> </u>
	PDP-BLK ON/OFF	1:ON, 0:OFF	+	1	0		-	\vdash	-
	Counting time for discrimination of fH(M30625/TA1370)	-	T	31	2				
	Sharpness f0(L)	Sub	T	3	2				
207	NJW1320_OUT1_GAIN	VIDEO PWB	Т	1	0				
	NJW1320_OUT2_GAIN	VIDEO PWB		1	0				
	Sharpness f0(L')	Sub	\perp	3	2			ـــــ	
	AFC_GAIN (Except AV00 mode)	Except AV00 mode	\perp	3	0	1	<u> </u>		<u> </u>
	Recovery to an error of OSC frequency of Ceramic resonator for timer	NT3/NT3/UD3/UD3/DALG/DALG/UD3/UD3/UD3/UT3/UT3/	H	62	34	-	-	—	-
	Brightness Center (CM) Brightness Center (CM)	NT2/NT3/HD2/HD3/PAL2/PAL3/HD9/HD10/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8	+	254 254	128 128	 	 	\vdash	\vdash
	Brightness Center (CM) Brightness Center (CM)	MULTI PICTURE/NT1/PAL1	+	254	128	 	 	\vdash	
	Reset function of accumulation time for WVGA/LCD Panel	0:Normal 1:Reset	H	1	0	†		\vdash	
	Contrast Center (CM) Except WVGA & LCD	TV/VIDEO(AV3/AV4 mode)	Ħ	254	137	1			t
_	Power key function available or not (At Force AVC mode)	0:Available 1:Cannot	Ħ	1	0				
218	Color Center (CM)	NT1/NT2/NT4/HD3/HD4/HD6/PAL4	П	127	46				
_	Color Center (CM)	PAL1/PAL2/HD8/HD9	Γ	127	50				
	Color Center (CM)	NT3/HD1/HD2/HD5/PAL3/HD7/HD10	Г	127	58				
	Tint Center (CM)	PAL1	ш	254	140			L	
	Tint Center (CM)	NT1/NT2/NT4/HD3/HD4/HD6	ш	254	130			<u> </u>	
	Tint Center (CM)	PAL2/HD8/HD10/PAL4	+	254	108			Ь—	<u> </u>
	Tint Center (CM)	NT3/HD1/HD2/HD5/PAL3/HD7/HD9	+	254 31	140 15			\vdash	-
	Center of Sharpness (HV Enhancer Gain for Y) For Europe Center of Sharpness (HV Enhancer Gain for Y) For Europe	VIDEO	+	31	15			\vdash	
	Center of Sharpness (HV Enhancer Gain for Y) For Europe Center of Sharpness (HV Enhancer Gain for Y) For Europe	HD5/HD6	+	31	6		-	\vdash	<u> </u>
	Center of Sharpness (HV Enhancer Gain for Y) For Europe	HD1/HD4/HD7/HD8	+	31	10				
	Center of Sharpness (HV Enhancer Gain for Y) For Europe	HD2/HD3/HD9/HD10	T	31	10				
	Center of Sharpness (HV Enhancer Gain for Y) For Europe	NT2/NT3/PAL2/PAL3/NT4/PAL4	T	31	14				1
231	Center of Sharpness (HV Enhancer Gain for Y) For Europe	TEXT(for split)	T	31	7				
232	Maximum Value of Contrast at REAL/NORMAL mode			254	188				
	Offset Value of Contrast data at SPLIT mode		Ш	120	55			L	
	Offset value of gain for Black Stretch function	Except OFF/LOW/HIGH mode	\perp	63	33				
	Demonstration [White] 0-3:None,4:0,5:+10W,6:+20W,7:+30W	Mode(common)	+	7	5	ļ		\vdash	-
	Demonstration 0:Normal, 1:Peak Demonstration [Middle] 0:+0W,1:+10W,2:+20W,3:+30W	Mode Mode(common)	+	3	3			├──	
	Demonstration 0:Normal, 1:Peak	Mode (common)	+	1	0			\vdash	<u> </u>
	Horizontal Enhance	TEXT	+	3	3				<u> </u>
	YNR Input Level at Low level for DVI-STV Mode	1080i-60/1080i-50/720p-60	T	7	2				
241	YNR Input Level at Low level for DVI-STV Mode	480i/480p/576i/576p/VGA	Т	7	2				
242	CNR Input Level at Low level for DVI-STV Mode	1080i-60/1080i-50/720p-60		7	2				
	CNR Input Level at Low level for DVI-STV Mode	480i/480p/576i/576p/VGA		7	2				
	Vertical Enhance	TEXT	ш	3	3			<u> </u>	
	Demonstration Mode 0:(Off), 1:(On)		\perp	1	0			—	ļ
	WVGA sys_state	For WVGA	\perp	1	0			⊢—	
	WVGA BRIGHTNESS Enhancer gain of VH for C	For WVGA TEXT	+	1 31	0	 	-	\vdash	+
	YNR(NR) Input Level	RF Mode	+	7	3	 		\vdash	
	YNR Input Level at Low level for AV1-4 Mode	VIDEO	H	7	3	<u> </u>			
	YNR Input Level at Low level for AV1-4 Mode	NT2/NT3/PAL2/PAL3/NT4/PAL4	Ħ	7	3	1			
251	YNR Input Level at Low level for AV1-4 Mode	HD1/HD4/HD5/HD6/HD7/HD8	Т	7	3				
		HD2/HD3/HD9/HD10	Π	7	3				
252 253	YNR Input Level at Low level for AV1-4 Mode			7	3			\vdash	
252 253 254	CNR Input Level at Low level for AV1-4 Mode	VIDEO	Ш					1 -	I _
252 253 254 255	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode	NT2/NT3/PAL2/PAL3/NT4/PAL4	t	7	3				_
252 253 254 255 256	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8		7	3				
252 253 254 255 256 257	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode	NT2/NT3/PAL2/PAL3/NT4/PAL4		7	3				
252 253 254 255 256 257 258	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10		7 7 1	3 3 1				
252 253 254 255 256 257 258 259	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8)	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO		7 7 1 2	3 3 1 1				
252 253 254 255 256 257 258 259 260	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yeslect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8)	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10		7 7 1 2 2	3 3 1 1 1				
252 253 254 255 256 257 258 259 260	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8)	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO		7 7 1 2	3 3 1 1				
252 253 254 255 256 257 258 259 260 261 262	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8) Select for APC function	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV//IDE0 DVI-PC/DVI-STB/DSUB-RGB		7 7 1 2 2	3 3 1 1 1 0				
252 253 254 255 256 257 258 259 260 261 262 263 264	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "TSC/EBU(CCFORM)	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO		7 7 1 2 2 1	3 3 1 1 1 0 0				
252 253 254 255 256 257 258 259 260 261 262 263 264 265	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function NTSC/EBU(CCFORM) NTSC/EBU(CCFORM)	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL	4	7 7 1 2 2 1 1 1 1	3 3 1 1 1 0 0 0 0				
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252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yeslect(0:1.0 1:2.2 2:2.8) yeslect(0:1.0 1:2.2 2:2.8) yeslect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "CCFMD" function "TCFMD" function NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) Correction for Tracking (DCBON) Correction for Trac	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDE0 DVI-PC/DVI-STB/DSUB-RGB TV/VIDE0 DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDE0/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO-Color Temp.: COOL TV/AV-Col. Temp.: Nor/War DVI-PC/DVI-STB/DSUB-RGB DYNAMIC VIDEO/PC	4	7 7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
252 253 254 255 256 257 258 260 261 262 263 264 265 266 267 271 272 273 274 275 276	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yeslect(0:1.0 1:2.2 2:2.8) yeslect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "CCFMD" function "TCFMD" function NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) Correction for Tracking (DCBON) Correction for	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO-Color Temp.: COOL TV//AV-Col. Temp.: Nor/War DVI-PC/DVI-STB/DSUB-RGB DYNAMIC VIDEO/PC For Power Save at AV mode For Power Save at AV mode 60Hz	4	7 7 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 2 31 1 1 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 270 271 272 273 274 275 276 277	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "TCFMD" function "TCFMD" function NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) Correction for Tracking (DCBON) Color Temp. Correction Typical Value of Contrast OSD PC Power Save function (0:Impossible 1:Possible) Waite Time for POWER SAVE function (s) Lower Limits value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Vertical Position of OSD	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV//IDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL- DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO-Color Temp.: COOL TV/AV-Col. Temp.: Nor/War DVI-PC/DVI-STB/DSUB-RGB DYNAMIC VIDEO/PC For Power Save at AV mode For Power Save at AV mode	4	7 7 7 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 2 31 1 1 5 5 5 7 7 7 7 7				
252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 270 271 272 273 274 275 276 277	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "CCFMD" function "TSC/EBU(CCFORM) NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) Orrection for Tracking (DCBON) Correction for Tracking (DCBON) Color Temp. Correction Typical Value of Contrast OSD PC Power Save function (0:Impossible 1:Possible) Waite Time for POWER SAVE function (s) Lower Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Horizontal Position of OSD Vertical Position of OSD PinP Function 0:PinP, 1:Information 1, 2:Information Split	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO-Color Temp.: COOL TV//AV-Col. Temp.: Nor/War DVI-PC/DVI-STB/DSUB-RGB DYNAMIC VIDEO/PC For Power Save at AV mode For Power Save at AV mode 60Hz	4	7 7 7 7 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1				
252 253 254 255 256 257 258 259 260 261 263 264 265 266 267 271 272 273 274 275 276 277 278	CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode CNR Input Level at Low level for AV1-4 Mode Heat APC function (HAPC) available yselect(0:1.0 1:2.2 2:2.8) yselect(0:1.0 1:2.2 2:2.8) Select for APC function "CCFMD" function "CCFMD" function "TCFMD" function "TCFMD" function NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) NTSC/EBU(CCFORM) Correction for Tracking (DCBON) Color Temp. Correction Typical Value of Contrast OSD PC Power Save function (0:Impossible 1:Possible) Waite Time for POWER SAVE function (s) Lower Limits value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Upper Limits Value for Sync Detect of 2ms interval Vertical Position of OSD	NT2/NT3/PAL2/PAL3/NT4/PAL4 HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10 TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO DVI-PC/DVI-STB/DSUB-RGB NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL DVI-PC/DVI-STB/DSUB-RGB TV/VIDEO-Color Temp.: COOL TV//AV-Col. Temp.: Nor/War DVI-PC/DVI-STB/DSUB-RGB DYNAMIC VIDEO/PC For Power Save at AV mode For Power Save at AV mode 60Hz	4	7 7 7 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 2 31 1 1 5 5 5 7 7 7 7 7				

					O : Should Δ : Should	be follow	ed previ	
ADJ.	Function		Maximum		Ch Formatter	<u> </u>	omponer	nt LCD
No.	Adjustment Items	Mode	Value	Default	PWB	PWB	PWB	PANE
282	Display of internal temperature C°(Temperature) Display of Panel map version		125 255	-				
	accumulation time for Panel (hours)		65535	-				
285	Initialize function 0:Keep data, 1:Initialize L standard PLL gating HIGH [Europe model]	No.0-No.23,30-33,42-45,289,293,294Adj No.741-743,	1 1	- 0				
287	Select for APC output [Except Europe model]	Main FE	2	1				
	Q mode 0:Freeze, 1:Move 1, 2:Move 2	50Hz	2	1				
	AGC adjustment (MFE) [Except Europe model] AGC adjustment (MFE) [Europe model]	MAIN MAIN	63	50 20	Δ		0	
	AGC adjustment (Wil E) [Europe model] AGC INPUT(MFE)	MAIN	- 03	-				
	Q mode 0:Freeze, 1:Move 1, 2:Move 2	70Hz(PC)	2	0				
293	SUB CONTRAST AV2 SUB CONTRAST AV3	MAIN/SUB COMPOSITE mode MAIN/SUB COMPOSITE mode	15 15	8				
	Contrast Center (CM) Except WVGA & LCD	AV2	254	137				
	Contrast Center (CM) Except WVGA & LCD	AV1	254	137				
	Brightness center (CM) offset Brightness center (CM) offset	AV2 AV1	254 254	127 127				
299	Q mode 0:Freeze, 1:Move 1, 2:Move 2	60Hz	2	1				
	3D ON/OFF 0:ON,1:OFF(Through)	Maia (Cult	1 1	0				
	Input Select of TA1370 0:HD1/VD1,1:HD3/VD3 Sharpness Gain(RF/NR)	Main/Sub Main/Sub	1 15	3				
303	3Line Y/C Main- Sub SW	0:Main, 1: Sub	1	0				
	Offset Value(+/-) of Upper Limit (for TB1274:SUB-CONT)	Single Picture mode	18	2				
	Offset Value(+/-) of Upper Limit (for FC :RGB-AMP) Reference Amplitude(RGB_AMP)	Multi Picture mode Multi Picture mode	18 254	2 90	 	<u> </u>		
307	Component Frq.(fH) Setup (0:28/31/33/45KHz,1:28/31/45KHz)		1	0				
	Terget value of White peak Adj.	Single Picture mode	237	235				
	Sharpness Gain(S VIDEO) Sharpness Gain(S VIDEO)	Main Sub	15 15	7	 			
311	Select color control (0: Asia, 1: South America)	Main/Sub	1	0				
	Sharpness Gain Main(N-PAL)		15	8				
	Sharpness f0 Main(N-PAL) Sharpness Gain Sub (N-PAL)	+	3 15	9	-			
315	Sharpness f0 Sub (N-PAL)		3	2				
	Delay Time ON/OFF for Lipsync circuit 0:Off, 1:On		1 7	1				
	Sync Mode SW Set Sound System at Auto mode of Sound Sys. (0:auto,1:4.5MHz)	Main	7	0				
	Power condition at power save mode of PC mode after done RESET function	0:Keep last condition, 1:Return to normal condition	1	0				
	Switch to North USA model from Europe software. OSD change (Wide Mode,)	0:For Europe, 1:Foe USA (DAY/NIGHT,)	1	0				
321		0:MCU-250ms, 1:AC-50/60Hz 0:Normal, 1:For service	1 1	0				
	Forced AVC type available	0:Normal type , 1: Forced AVC type	1	0				
324			15	8				
	Sharpness f0 Main(M-PAL) Sharpness Gain Sub (M-PAL)		3 15	9				
	Sharpness f0 Sub (M-PAL)		3	2				
	CNR Input Level at Low level for Dsub Comp. Mode	NT2/NT3/PAL2/PAL3/NT4/PAL4	7	2				
	CNR Input Level at Low level for Dsub Comp. Mode CNR Input Level at Low level for Dsub Comp. Mode	HD1/HD4/HD5/HD6/HD7/HD8 HD2/HD3/HD9/HD10	7 7	2				
	Sharpness Gain(VIDEO) NTSC3.58	MAIN	15	12				
	Sharpness f0(VIDEO) NTSC3.58	MAIN	3	2				
333	Sharpness Gain(VIDEO) NTSC3.58 Sharpness f0(VIDEO) NTSC3.58	SUB SUB	15	10				
	Sharpness Gain(VIDEO) SECAM,B/W	MAIN	15	10				
336		MAIN	3	2				
337	Sharpness Gain(VIDEO) SECAM,B/W Sharpness f0(VIDEO) SECAM,B/W	SUB SUB	15	8				
	Sharpness Gain(VIDEO) NTSC4.43	MAIN	15	9				
	Sharpness f0(VIDEO) NTSC4.43	MAIN	3	2				
	Sharpness Gain(VIDEO) NTSC4.43 Sharpness f0(VIDEO) NTSC4.43	SUB SUB	15	8 2	-			
343	Brightness Limitted Function of PANEL [APSON]		1	1				
	VsVa WAIT TIMER [RISTIM]	Developed States of the States	15	5				
	Initial value of Contrast Interval time of correction time	Panel life -Extend1 Panel life -Extend1	127 127	93 10				
347	Additional value of Contrast	Panel life -Extend1	127	1				
	Initial value of Contrast	Panel life -Extend2	127	63				_
	Interval time of correction time Additional value of Contrast	Panel life -Extend2 Panel life -Extend2	127 127	6	 			_
351	L_PLL.GAIN		1	0				
	AS[YHECLPL0_P0]	RF/Multi	15	2				
	AS[YHECLPL1_P0] [YHECLPL2_P0]	NT1-except RF/PAL1-except RF HD	15 15	2	 	<u> </u>		\vdash
355	AS[YHECLPL3_P0]	NT2,3,4/PAL2,3,4	15	10				
	SEPA_LEVEL_DSUB	480i/576i	3	2				
	SEPA_LEVEL_DSUB SEPA_LEVEL_DSUB	480p/576p 1080i_50	3	2	-			
359	SEPA_LEVEL_DSUB	1080i_60/720p	3	2				
	HD-PHASE_DSUB	480i/576i	63	20				
	HD-PHASE_DSUB HD-PHASE_DSUB	480p/576p 1080i_50	63	20 20		_		\vdash
	HD-PHASE_DSUB	1080i_60/720p	63	20				
	Y_DL (L)	MAIN	10	4				
	Y_DL (L') Y_DL (L)	MAIN Sub	10	4	-	-		_
	Y_DL (L) Y_DL (L')	Sub	10	1				
368	Sharpness Gain(L)	MAIN	15	10				
	Sharpness Gain(L')	MAIN	15	10				_
	Sharpness Gain(L) Sharpness Gain(L')	SUB SUB	15 15	8	 			
372	Sharpness f0(L)	MAIN	3	2				
	Sharpness f0(L')	MAIN	3	2				
3/4	BURN-IN enable/ disenable	0:Disenable, 1:Enable	1	1 2	l	L		

						Δ : Should			
	Function		I				<u> </u>	omponen	
ADJ. No.	Adjustment Items	Mode	Maxi Va		Default	Formatter PWB	VIDEO	TUNER PWB	LCD PANEL
	CM_THRESHOLD (D15-D8)	-	25	_	0	1 110	. ***	1 110	TAINEE
	CM_THRESHOLD (D7 -D0)	-	25	_	36				
	Sharpness Gain(RF M)	MAIN	1	5	11				
	Sharpness Gain(RF M)	Sub	1		11				
	Sharpness f0 (RF M)	Main	3		2				
	Sharpness f0 (RF M) Counting value of 2ms Sync.Detect	SUB MAIN	3	3	2				
	Counting value of 2ms Sync.Detect Counting value of 2ms Sync.Detect	SUB			-				
	TB1274 Read Data(00h)	Main	<u> </u>	_	-				
385	TB1274 Read Data(01h)	Main	-		-				
	TB1274 Read Data(00h)	Sub			-				
	TB1274 Read Data(01h)	Sub	<u> </u>		-				
	MSP Read Data (CNTROL) (D15-D8) MSP Read Data (CNTROL) (D7 -D0)		ļ -	_	-				
	MSP Read Data (CNTROL) (D7 -D0) MSP Read Data (STANDARD_RES) (D15-D8)		+		-				
	MSP Read Data (STANDARD_RES) (D7 -D0)		+						
	MSP Read Data (STATUS) (D15-D8)		<u> </u>		-				
393	MSP Read Data (STATUS) (D7 -D0)		-		-				
	TA1370G Read Data(00h)	Video board side			-				
	TA1370G Read Data(01h)	Video board side	ļ .		-				
	TA1370G Read Data(00h)	Formater side	-		-				
	TA1370G Read Data(01h) uPD64084 Read Data(00H)	Formater side	−		-	-			
	uPD64084 Read Data(00H) uPD64084 Read Data(01h)	+			-	1		\vdash	
	Language (Refer to below)		- 6		0				
	Hotel Mode(0:No,1:Yes)		1	_	0				
	Analog Data (0:Keep EEPROM,1:Not Keep to EEPROM)		1	_	0				
	Maximum Volume Limit		6	_	63				
	Power Mode(0:Last mode, 1:Pos1, 2:V1, 3:V2, 4:V3, 5:V4)		5	_	0				
	Channel Select(0:CCIR, 1:CHINA) Auto sound 4.5 (0:Korea, 1:BTSC, 2:Japan)	 	1 2		0	-		\vdash	
	Auto_sound 4.5 (0:Korea, 1:BTSC, 2:Japan) T/TEXT(0: None, 1:Yes)		1	_	1				
	TEXT Language	+	1		0				
	IIC BUS Data/Clock Open(0:Close, 1:Open)		1		0				
410	Channel Preset(0:VESTEL, 1:GIFU, 2:HAMA, 3:HFDM,4:AUSTRALIA)			1	1				
	Detect and Displsy Tele-Cinema (0:normal 1:Tele Cinema)				-				
	V FREQ 60Hz Force (0:None, 1:Yes)	Main/Sub	1		0				
	COLOR SYSTEM CONTROL-MODE (0:BW, 2:3.58NTSC, 3:4.43NTSC,)	Main	+		-				
	COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC,) Horizontal Filter SW [HHPF0]	Sub NTSC	1	_	0				
	Enhancer Gain [HHPF1]	PAL	1	_	0				
	Enhancer Gain [HHPF2]	HD	1		0				
418	Horizontal Coring Level(Enhancer Gain) AS[HECOR0_PO]	NT1-RF	1	5	1				
	Horizontal Coring Level(Enhancer Gain) AS[HECOR1_PO]	PAL1-RF/Multi	1		1				
	Horizontal Coring Level(Enhancer Gain) [HECOR2_PO]	NT1-Video	1	_	1				
	Horizontal Coring Level(Enhancer Gain) [HECOR3_PO]	PAL1-Video	1		1				
	Horizontal Coring Level(Enhancer Gain) [HECOR4_PO] Horizontal Coring Level(Enhancer Gain) [HECOR5_PO]	NT2/NT3/NT4/PAL2/PAL3/PAL4 HD2/HD3/HD9/HD10	1		0				
	Horizontal Coring Level(Enhancer Gain) [HECOR6_PO]	HD1/HD4/HD5/HD6/HD7/HD8	1		0				
	Horizontal Coring Level(Enhancer Gain) [HECORPC_PO]	PC PC	1	_	1				
	Horizontal Coring Level(Enhancer Gain) EU[HECORE_PO]	PAL1-RF/multi	1		1				
	Vertical Coring Level(Enhancer Gain) AS[VECOR0_P0]	NT1-RF	1	5	1				
	Vertical Coring Level(Enhancer Gain) AS[VECOR1_PO]	PAL1-RF/multi	1		1				
	Vertical Coring Level(Enhancer Gain) [VECOR2_PO]	NT1-Video PAL1-Video	1	_	1				
	Vertical Coring Level(Enhancer Gain) [VECOR3_PO] Vertical Coring Level(Enhancer Gain) [VECOR4 PO]	NT2/NT3/NT4/PAL2/PAL3/PAL4	1		0				
	Vertical Coring Level(Enhancer Gain) [VECOR5_PO]	HD2/HD3/HD9/HD10	1	_	0				
	Vertical Coring Level(Enhancer Gain) [VECOR6_P0]	HD1/HD4/HD5/HD6/HD7/HD8	1		0				
434	Vertical Coring Level(Enhancer Gain) [VECORPC_PO]	PC	1	_	0				
	Vertical Coring Level(Enhancer Gain) EU[VECORE_PO]	PAL1-RF/multi	1		0				
	Horizontal Coring Level(Enhancer Gain) AS[HECOR0_P1]	NT1-RF	1	_	1				
	Horizontal Coring Level(Enhancer Gain) AS[HECOR0_P2] Horizontal Coring Level(Enhancer Gain) [HECOR0_P3]	PAL1-RF/multi NT1-Video	1		0	-			
	Horizontal Coring Level(Enhancer Gain) [HECORU_P3] Horizontal Coring Level(Enhancer Gain) [HECORU_P4]	PAL1-Video	1		1				
	Horizontal Coring Level(Enhancer Gain) [HECOR0_P5]	NT2/NT3/NT4/PAL2/PAL3/PAL4	1		0				
441	Horizontal Coring Level(Enhancer Gain) [HECOR0_P6]	HD2/HD3/HD9/HD10	1	5	1				
	Horizontal Coring Level(Enhancer Gain) [HECOR0_P7]	HD1/HD4/HD5/HD6/HD7/HD8	1		1				
	Horizontal Coring Level(Enhancer Gain) [HECORPC_P1]	PC	1		1				
	Horizontal Coring Level(Enhancer Gain) EU[HECORE_P1]	PAL1-RF/multi NT1-RF	1		1	-			
	Vertical Coring Level(Enhancer Gain) AS[VECOR0_P1] Vertical Coring Level(Enhancer Gain) AS[VECOR0_P2]	PAL1-RF/multi	1	_	1				
	Vertical Coring Level(Enhancer Gain) (VECOR0_P2) Vertical Coring Level(Enhancer Gain) (VECOR0_P2)	NT1-Video	1		1				
	Vertical Coring Level(Enhancer Gain) [VECOR0_P4]	PAL1-Video	1		1				
449	Vertical Coring Level(Enhancer Gain) [VECOR0_P5]	NT2/NT3/NT4/PAL2/PAL3/PAL4	1	5	1				
	Vertical Coring Level(Enhancer Gain) [VECOR0_P6]	HD2/HD3/HD9/HD10	1		15				
	Vertical Coring Level(Enhancer Gain) [VECOR0_P7]	HD1/HD4/HD5/HD6/HD7/HD8	1		0	-			
	Vertical Coring Level(Enhancer Gain) [VECORPC_P1] Vertical Coring Level(Enhancer Gain) EU[VECORE_P1]	PC PAL1-RF/multi	1		0	-			
	YFRNR Input Gain (Main) 2pictures [MYNRG0]	except HD-HD	1 7		1	 			
	(HD-NTSC, HD-PAL (sub) [MYNRG1]	HD-HD	1	_	4				
	4pictures [MYNRG2]	NT-*/PAL-*	7		1				
	[MYNRG3]	HD-*	7	_	4				
	YFRNR Input Gain(Sub) [YCNRG0]	2pictures	7	_	4				
	[YCNRG1]	4pictures/12pictures	1	_	1	-			
	CFRNR Input Gain 8Main) 2pictures [MCNRG0] <hd-ntsc,hd-pal(sub) [mcnrg1]<="" td=""><td>except HD-HD HD-HD</td><td>7</td><td></td><td>3</td><td>-</td><td></td><td></td><td></td></hd-ntsc,hd-pal(sub)>	except HD-HD HD-HD	7		3	-			
	[MCNRG2]		+ '	_	4	 			
	[MCNRG3]	HD-*	1		4				
464	CFRNR Input Gain [SCNRG0]	2pictures	7		3				
465	[SCNRG1]	4pictures/12pictures	7		4				
	YFRNR Transition Level [MYNRP0]	NT1/PAL1/multi	7		1				
	[MYNRP5]	NT1/PAL1-Video	1	_	0	ļ			
	[MYNRP6] [MYNRP7]	NT2/NT3/NT4/PAL2/PAL3/PAL4 HD2/HD3/HD9/HD10	7		0	-			
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	Function			1		Δ : Should		ed previous omponer	
ADJ.				Maximum		Formatter		TUNER	LCD
No.	Adjustment Items	Mode		Value	Default	PWB	PWB	PWB	PANEI
	[MYNRP8]	HD1/HD4/HD5/HD6/HD7/HD8		7	0				
	YFRNR Transition Level (Main/Sub) [MCNRP0] [MCNRP5]	NT1/PAL1/multi NT1/PAL1-video		7	2				⊢—
	[MCNRP6]	NT2/NT3/NT4/PAL2/PAL3/PAL4	-	7	2				\vdash
	[MCNRP7]	HD2/HD3/HD9/HD10		7	2				
475	[MCNRP8]	HD1/HD4/HD5/HD6/HD7/HD8		7	0				
	Vertical Enhancer [YVEG0_P0]	NTSC/PAL(-except RF)		15	8				
	[YVEG1_P0]	HD2/HD3/HD9/HD10		15	12				└
	[YVEG2_P0] AS[YVEG3_P0]	HD1/HD4/HD5/HD6/HD7/HD8 PAL1-RF/multi		15 15	8				⊢—
	EU[YVEG0 E P0]	PAL1-RF/multi		15	8				
	Vertical RGB Gain For Y/G [YVDSBG0_P0]	NTSC/PAL/multi		3	0				
	[YVDSBG1_P0]	HD2/HD3/HD9/HD10		3	0				
	[YVDSBG2_P0]	HD1/HD4/HD5/HD6/HD7/HD8		3	0				
	Vertical RGB Coring For Y/G [YVDSBG0_P0]	NTSC/PAL/multi		7	0				<u> </u>
	[YVDSBG1_P0] Vertical Enhancer Clip for Y/G [YVECLP0_P0]	HD NTSC/PAL/multi		7	3				\vdash
	[YVECLP1_P0]	HD HD		1	1				
	Vertical Clip Offset level [YVECLP0_P0]	NTSC/PAL/multi		15	7				
	[YVECLP1_P0]	HD		15	1				
	Vertical Non Linear Peaking for Y/G [YVNLP0_P0]	NTSC/PAL/multi		63	0				ــــــ
	[YVNLP1_P0]	HD		63	0				
	Horizontal HPF Peak Freq SW for Y/G [YHHPF0_P0] [YHHPF1_P0]	NTSC/PAL/multi HD2/HD3/HD9/HD10		3	2				├
	[YHHPF2_P0]	HD1/HD4/HD5/HD6/HD7/HD8	-+	3	1	 			
495	Horizontal Enhancer Gain for Y/G [YHEG0_P0]	NTSC/PAL(except -RF)		15	15				
496	[YHEG1_P0]	HD2/HD3/HD9/HD10		15	15				
	[YHEG2_P0]	HD1/HD4/HD5/HD6/HD7/HD8		15	0				\vdash
	AS[YHEG3_P0]	PAL1-RF/multi		15	15				<u> </u>
	EU[YHEG0_E_P0] Hrozontal DSB Gain for Y/G [YHDSBG0_P0]	PAL1-RF/multi NTSC/PAL/multi		15 3	15 3	 	-		\vdash
	[YHDSBG1 P0]	HD2/HD3/HD9/HD10	-	3	0		<u> </u>		—
	[YHDSBG2_P0]	HD1/HD4/HD5/HD6/HD7/HD8	+	3	0				
	Horizontal DSB Coring for Y/G [YHDSBC0_P0]	NTSC/PAL/multi		7	1				
504	[YHDSBC1_P0]	HD		7	0				
	Horizontal Enhancer Clip for Y/G [YHECLP0_P0]	NTSC/PAL/multi		1	0				
	[YHECLP1_P0]	HD		1	0				—
	Horizontal Clip Offset Level for Y/G AS[YHECLPL0_P0] AS[YHECLPL1_P0]	RF/multi NT1-except RF/PAL1-except RF		15 15	2				⊢—
	[YHECLPL2 P0]	HD		15	1	-	-		
	EU[YHECLPL0_E_P0]	RF/multi		15	4				
	EU[YHECLPL1_E_P0]	NT1-except RF/PAL1-except RF		15	4				
	Horizontal Non Linear Peaking for Y/G [YHNLP0_P0]	NTSC/PAL/multi		63	0				
	[YHNLP1_P0]	HD		63	0				
	Coring Amplitude for Y/G [YCOR0_PO]	NT1-RF/PAL1-RF/multi		7	7				ــــــ
	[YCOR1_PO] [YCOR2_PO]	NT1-Video/PAL1-Video NT2/NT3/NT4/PAL2/PAL3/PAL4	-	7	5 3				\vdash
	[YCOR2_PO]	HD2/HD3/HD9/HD10	-	7	1				┢
	[YCOR4_PO]	HD1/HD4/HD5/HD6/HD7/HD8		7	1				
	Vertical Enhancer Gain for Y/G [YVEG0_P1]	NTSC/PAL(-RF以外)		15	15				
520	[YVEG1_P1]	HD2/HD3/HD9/HD10		15	4				
	[YVEG2_P1]	HD1/HD4/HD5/HD6/HD7/HD8		15	15				
	AS[YVEG3_P1]	PAL1-RF/multi		15	15				<u> </u>
	EU[YVEG0_E_P1] Vertical DSB Gain for Y/G [YVDSBG0_P1]	PAL1-RF/multi NTSC/PAL/multi		15 3	15 3				
	[YVDSBG1_P1]	HD2/HD3/HD9/HD10		3	0		-		
	[YVDSBG2_P1]	HD1/HD4/HD5/HD6/HD7/HD8		3	2				
	Vertical DSB Coring for Y/G [YVDSBC0_P1]	NTSC/PAL/multi		7	7				
	[YVDSBC1_P1]	HD		7	0				
	Vertical Enhancer Clip for Y/G [YVECLP0_P1]	NTSC/PAL/multi		1	1				ــــــ
	[YVECLP1_P1] Vertical Clip Offset Level for Y/G [YVECLP0_P1]	HD NTSC/PAL/multi		1 15	0 15	-	-		₩
	[YVECLP1_P1]	NTSC/PAL/multi	+	15	15 8	 	-		\vdash
	Vertical Non Linear Peaking for Y/G [YVNLP0_P1]	NTSC/PAL/multi	-+	63	0	 			<u> </u>
534	[YVNLP1_P1]	HD		63	0				
	Horizontal HPF Pead Freq SW for Y/G [YHHPF0_P1]	NTSC/PAL/multi		3	2				
	[YHHPF1_P1]	HD2/HD3/HD9/HD10	$ \top$	3	2				\vdash
	[YHHPF2_P1]	HD1/HD4/HD5/HD6/HD7/HD8	-+	3	2	-			₩
	Horizontal Enhancer Gain for Y/G [YHEG0_P1] [YHEG1_P1]	NTSC/PAL(except-RF) HD2/HD3/HD9/HD10	+	15 15	15 15	 			\vdash
	[YHEG2_P1]	HD1/HD4/HD5/HD6/HD7/HD8	- 1	15	15				
541	AS[YHEG3_P1]	PAL1-RF/multi		15	15				
542	EU[YHEG0_E_P1]	PAL1-RF/multi		15	15				
	Horizontal DSB Gain for Y/G [YHDSBG0_P1]	NTSC/PAL/multi		3	2				\vdash
	[YHDSBG1_P1]	HD2/HD3/HD9/HD10		3	0				—
	[YHDSBG2_P1] Horizontal DSB Coaring for Y/G [YHDSBC0_P1]	HD1/HD4/HD5/HD6/HD7/HD8 NTSC/PAL/multi	\longrightarrow	7	7	-	-		
	[YHDSBC1_P1]	HD HD	-+	7	7		 		<u> </u>
	Horizontal Enhancer Clip for Y/G [YHDSBC0_P1]	NTSC/PAL/multi	- +	1	0				
549	[YHDSBC1_P1]	HD		1	0				
550	Horizontal Clip Offset Level for Y/G AS[YHCLPL0_P1]	RF/multi		15	4				
	AS[YHCLPL1_P1]	except NT1-RF/PAL1-except RF		15	4				
	[YHECLPL2_P1]	HD BE/multi	\longrightarrow	15	5	-			₩
	EU[YHECLPL0_E_P1] EU[YHECLPL1 E P1]	RF/multi NT1-except RF/PAL1-except RF		15 15	4	-	-		-
J::04	Horizontal Non Linear Peaking for Y/G [YHNLP0_P1]	NTSC/PAL/multi	+	63	0	 	<u> </u>		
555	[YHNLP1_P1]	HD HD	-+	63	0	 			\vdash
		NT1-RF/PAL1-RF/multi	-	7	7				
556	Coring Amplitude for Y/G [YC0R0_P1]	INT I-RE/EAL I-RE/IIIIIII							-
556 557	Coring Amplitude for Y/G [YC0R0_P1] [YC0R1_P1]	NT1-video/PAL1-video		7	4				L
556 557 558 559	[YCOR1_P1] [YCOR2_P1]	NT1-video/PAL1-video NT2/NT3/NT4/PAL2/PAL3/PAL4		7	3				
556 557 558 559 560	[YC0R1_P1] [YC0R2_P1] [YC0R3_P1]	NT1-video/PAL1-video NT2/NT3/NT4/PAL2/PAL3/PAL4 HD2/HD3/HD9/HD10		7 7 7	3 2				
556 557 558 559 560 561	[YCOR1_P1] [YCOR2_P1]	NT1-video/PAL1-video NT2/NT3/NT4/PAL2/PAL3/PAL4		7	3				

						O : Should Δ : Should			ioue dat
	Function							omponer	
ADJ.	Adjustment Items	Mode		Maximum	Default	Formatter			
No.	<u> </u>		Ц	Value		PWB	PWB	PWB	PANEI
	DSB Gain of Vertical for B-Y/B,R-Y/R [CVDSBG0] [CVDSBG1]	NTSC/PAL/multi HD	Н	3	0				-
	DSB coring of Vertical for B-Y/B,R-Y/R [CVDSBC0]	NTSC/PAL/multi	Н	7	0				\vdash
	[CVDSBC1]	HD	Н	7	0				
	Vertical enhancer Clip for B-Y/B, R-Y/R [CVECLP0]	NTSC/PAL/multi		1	0				
\rightarrow	[CVECLP1]	HD	Ц	1	0				
	Horizontal HPF Peak Freq. SW for B-Y/B, R-Y/R [CHHPF0] [CHHPF1]	NTSC/PAL/multi HD	Н	3	2				-
\rightarrow	Horizontal Enhancer Gain for B-Y/B, R-Y/R [CHEG0]	NTSC/PAL/multi	Н	3 15	15				├─
	[CHEG1]	HD	Н	15	9				<u> </u>
	Horizontal DSB Gain for B-Y/B, R-Y/R [CHDSBG0]	NTSC/PAL/Multi Picture	П	3	0				
	[CHDSBG1]	HD	Ц	3	0				
	Horizontal DSB Coring for B-Y/B, R-Y/R [CHDSBC0]	NTSC/PAL/Multi Picture	Н	7	0				
	[CHDSBC1] Horizontal Enhancer Clip fo B-Y/B, R-Y/R [CHECLP0]	NTSC/PAL/Multi Picture	Н	7	0				-
\rightarrow	[CHECLP1]	HD	Н	1	0				
	Coring Amplitude for B-Y/B, R-Y/R [CC0R0]	NTSC/PAL/Multi Picture	Н	7	1				\vdash
581	[CCOR1]	HD	П	7	1				
	B-Y Clamp offset [Except D Sub Component]	NT1/2/3,HD2/3,PAL1/2/3,HD9/10	Ц	255	128				
	R-Y Clamp offset [Except D Sub Component]	NT1/2/3,HD2/3,PAL1/2/3,HD9/10	Ц	255	128				<u> </u>
	B-Y Clamp offset [Except D Sub Component]	HD1/4,HD7/8	Н	255	128				-
	R-Y Clamp offset [Except D Sub Component] B-Y Clamp offset [Except D Sub Component]	HD1/4,HD7/8 HD5/6	Н	255 255	128 128				├
	R-Y Clamp offset [Except D Sub Component]	HD5/6	Н	255	128				\vdash
\rightarrow	B-Y Clamp offset [D Sub Component]	NT1/2/3,HD2/3,PAL1/2/3,HD9/10	Н	255	128				
589	R-Y Clamp offset [D Sub Component]	NT1/2/3,HD2/3,PAL1/2/3,HD9/10	Ц	255	128				
	B-Y Clamp offset [D Sub Component]	HD1/4,HD7/8	Ц	255	128				
	R-Y Clamp offset [D Sub Component]	HD1/4,HD7/8	Н	255	128				₩
	B-Y Clamp offset [D Sub Component] R-Y Clamp offset [D Sub Component]	HD5/6	Н	255 255	128 128	—		_	₩
	R-Y Clamp offset [D Sub Component] B-Y Clamp offset [DVI-STB]	480i/576i/480p/576p/VGA	Н	255	128				\vdash
	R-Y Clamp offset [DVI-STB]	480i/576i/480p/576p/VGA	H	255	128				
596	B-Y Clamp offset [DVI-STB]	1080i-50/1080i-60	Ц	255	128				
	R-Y Clamp offset [DVI-STB]	1080i-50/1080i-60	Ц	255	128				
\rightarrow	B-Y Clamp offset [DVI-STB]	720p-60	Ц	255	128				<u> </u>
	R-Y Clamp offset [DVI-STB]	720p-60	Н	255	128				-
	Y OUT LEVEL M (4.5) For Asia Y OUT LEVEL B/G (5.5) For Asia	Main Main	Н	63 63	15 13				\vdash
	Y OUT LEVEL D/K (6.5) For Asia	Main	Н	63	16				\vdash
	Y OUT LEVEL I (6.0) For Asia	Main	Н	63	14				†
604	Y OUT LEVEL B/G (5.5) For Europe	Main		63	13				
	Y OUT LEVEL D/K (6.5) For Europe	Main	Ц	63	16				
	Y OUT LEVEL I (6.0) For Europe	Main	Ц	63	19				<u> </u>
	Y OUT LEVEL L (6.5) For Europe Y OUT LEVEL L' (6.1) For Europe	Main Main	Н	63 63	13 12				-
	Y OUT LEVEL M (4.5) For US	Main	Н	63	13				\vdash
	C OUT LEVEL M (4.5) For Asia	Main	Н	63	7				\vdash
	C OUT LEVEL B/G (5.5) For Asia	Main	П	63	13				
612	C OUT LEVEL D/K (6.5) For Asia	Main		63	13				
	C OUT LEVEL I (6.0) For Asia	Main	Ц	63	13				
	C OUT LEVEL B/G (5.5) For Europe C OUT LEVEL D/K (6.5) For Europe	Main	Н	63 63	8				-
\rightarrow	C OUT LEVEL DIK (6.5) For Europe C OUT LEVEL I (6.0) For Europe	Main Main	Н	63	8				╁
	C OUT LEVEL L (6.5) For Europe	Main	Н	63	8				\vdash
	C OUT LEVEL L' (6.1) For Europe	Main	П	63	8				T
619	C OUT LEVEL M (4.5) For US	Main		63	13				
	Y OUT LEVEL M (4.5) For Asia	Sub	Ц	63	14				
	Y OUT LEVEL B/G (5.5) For Asia	Sub	Ц	63	13				
-	Y OUT LEVEL D/K (6.5) For Asia	Sub	Н	63	15				-
	Y OUT LEVEL I (6.0) For Asia Y OUT LEVEL B/G (5.5) For Europe	Sub Sub	Н	63 63	13 13				\vdash
	Y OUT LEVEL D/K (6.5) For Europe	Sub	H	63	16				
626	Y OUT LEVEL I (6.0) For Europe	Sub	D	63	20				
	Y OUT LEVEL L (6.5) For Europe	Sub	Ц	63	13				lacksquare
	Y OUT LEVEL L' (6.1) For Europe	Sub	Н	63	13				-
	Y OUT LEVEL M (4.5) For US C OUT LEVEL M (4.5) For Asia	Sub Sub	Н	63 63	13 7				\vdash
	C OUT LEVEL M (4.5) For Asia	Sub	Н	63	13				\vdash
	C OUT LEVEL D/K (6.5) For Asia	Sub	Н	63	13				
633	C OUT LEVEL I (6.0) For Asia	Sub	Д	63	13				
	C OUT LEVEL B/G (5.5) For Europe	Sub	Ц	63	13				lacksquare
	C OUT LEVEL D/K (6.5) For Europe	Sub	Н	63	13				₩
	C OUT LEVEL I (6.0) For Europe C OUT LEVEL L (6.5) For Europe	Sub Sub	Н	63 63	13 13			_	\vdash
	C OUT LEVEL L (6.5) For Europe C OUT LEVEL L' (6.1) For Europe	Sub	Н	63	13				\vdash
	C OUT LEVEL M (4.5) For US	Sub	Н	63	13				$\overline{}$
640	Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model))	DVI-PC	D	254	128				
	Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model))	DVI-STB (With Setup)	Ц	254	149				\vdash
	Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model))	DVI-STB (Without Setup) DSUB-RGB	Н	254	128				├
	Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model)) Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model))	Expand DSUB-RGB (Reserved)	Н	254 254	128 128			-	\vdash
	Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model)) Contrast Center (CM) ((Contrast Offset (CM) for only WVGA& LCD model))	DSUB-COMP	Н	254	137			_	\vdash
	Brightness Center (CM)	DVI-PC	Н	254	128				\vdash
	Brightness Center (CM)	DVI-STB	Ц	254	128				
648	Brightness Center (CM)	DSUB-RGB	П	254	128				
	Brightness Center (CM)	Expand DSUB-RGB (Reserved)	Д	254	128				\vdash
	Brightness Center Offset	DSUB-COMP	Ц	254	127	ļ			—
	Color Center (CM) Color Center (CM)	DVI-PC DVI-STB (480i/576i/480p/576p)	Н	127	64 62				₩
	Color Center (CM) Color Center (CM)	DVI-STB (480i/5/6i/480p/5/6p) DVI-STB (720p-60/1080i-60/1080i-50	Н	127 127	62				\vdash
	Color Center (CM)	DVI-STB (VGA)	Н	127	62				\vdash
	Color Center (CM)	DSUB-RGB	Н	127	64				
656	Tint Center (CM)	DVI-PC	П	254	128				
	Tint Center (CM)	DVI-STB (480i/576i/480p/576p)	Π	254	128				1

							O : Should be adjusted Δ : Should be followed previous data			
	Function					Changed Component				
ADJ.				Maximum		Formatter		TUNER		
No.	Adjustment Items	Mode		Value	Default	PWB	PWB	PWB	PANEL	
658	Tint Center (CM)	DVI-STB (720p-60/1080i-60/1080i-50	┪	254	128					
659	Tint Center (CM)	DVI-STB (VGA)	┪	254	128					
660	Tint Center (CM)	DSUB-RGB	╗	254	128					
661	Center of Sharpness (HV Enhance Gain for Y)	DVI-STB (480i/576i)	T	31	14					
662	Center of Sharpness (HV Enhance Gain for Y)	DVI-STB (480p/576p)	T	31	10					
663	Center of Sharpness (HV Enhance Gain for Y)	DVI-STB (720p-60)	╗	31	6					
664	Center of Sharpness (HV Enhance Gain for Y)	DVI-STB (1080i-60/1080i-50)	П	31	10					
665	Center of Sharpness (HV Enhance Gain for Y)	DVI-STB (VGA)	╗	31	10					
666	DVI-STB Setup 0:None VGA/Others Yes, 1:All none 2:All have	DVI-STB mode	T	2	0					
667	HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled)	DVI-PC	╗	1	0					
668	HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled)	DVI-STB	П	1	0					
669	HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled)	AVC	T	1	0					
670	Offset level of Horizontal CLIP for Y/G AS[YHECLPL3_P0]	NT2~4/PAL2~4	╗	15	10					
	EU[YHECLPL3 E P0]	NT2~4/PAL2~4	7	15	10					
672	Offset level of Horizontal CLIP for Y/G AS[YHCLPL3_P1]	NT2~4/PAL2~4	┪	15	15					
673	EU[YHECLPL3_E_P1]	NT2~4/PAL2~4	7	15	15					
674	Y_DL (4.5MHz) For US	Main	┪	10	7					
675	Y_DL (4.6MHz) For US	Sub	T	10	7					
676	Y_DL (5.5MHz PAL/NTSC4.43) For Europe	Main	┪	10	4					
	Y_DL (5.5MHz SECAM) For Europe	Main	7	10	1					
	Y_DL (6.0PAL/NTSC4.43) For Europe	Main	7	10	8					
	Y_DL (6.0SECAM) For Europe	Main	7	10	5					
	Y_DL (5.5MHz PAL/NTSC4.43) For Europe	Sub	7	10	2					
	Y_DL (5.5MHz SECAM) For Europe	Sub	\dashv	10	0					
	Y_DL (6.0PAL/NTSC4.43) For Europe	Sub	+	10	4					
	Y_DL (6.0SECAM) For Europe	Sub	7	10	0					
	Y_DL (6.5MHz PAL/NTSC4.43) For Europe	Main	\dashv	10	5					
	Y_DL (6.5MHz SECAM) For Europe	Main	7	10	5					
	Y_DL (6.5MHz PAL/NTSC4.43) For Europe	Sub	\dashv	10	2					
	Y_DL (6.5MHz SECAM) For Europe	Sub	+	10	0					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	TV	\dashv	31	15					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	VIDEO	\dashv	31	15					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	HD5/HD6	+	31	6					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	HD1/HD4/HD7/HD8	+	31	10					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	HD2/HD3/HD9/HD10	+	31	10					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	NT2/NT3/PAL2/PAL3/NT4/PAL4	+	31	14					
_	, , ,		+		_					
	Center of Sharpness (HV Enhancer Gain for Y) For Asia/US	TEXT(2pictures)	\dashv	31	15					
	Contrast mode <dynamic> SW (TV) 0:Dynamic 1:Dynamic+Auto</dynamic>	TV	+	1	1					
	V detection(FORMATTER PWB) 0:out of range 128: NO V (or out of spec) 255interrupt	50/60Hz	+	255	-					
	H detection(FORMATTER PWB) 0:out of range 128: NO V (or out of spec) 255interrupt	15/28/31/33/45kHz	+	255						
	V detection (VIDEO PWB) 0:out of range 128:NO V 255 interrupt	50/60Hz	4	255	-					
	H detection (VIDEO PWB) 0:out of range 128:NO V 255 interrupt	15/28/31/33/45kHz	4	255	-					
	Q mode 0:Freeze, 1:Move 1, 2:Move 2 For 55V	50Hz[Natural/Night] mode	4	2	1					
	Q mode 0:Freeze, 1:Move 1, 2:Move 2 For 55V	60Hz[Natural/Night] mode	4	2	1					
	Dispersion Time of Sustain current 0: 2 Times, 1: 4 times	For PC-Movie mode	4	1	1					
	SMPLING	For CCD	4	255	0					
	POLLING	For CCD	4	255	15					
	START	For CCD	4	7	2					
	TIMEOUT	For CCD	4	30	5					
	STATUS	For CCD	4	7	2					
	CCD-HP	For CCD	4	79	40					
_	CCD-CLK	For CCD	4	79	57					
	Sharpness Gain	For Main 480i/576i	4	15	10					
	Sharpness EQ	For Main 480i/576i	4	3	1					
_	Sharpness f0	For Main 480i/576i	4	3	1					
	Cb Offset1	For Main 480i/576i	4	15	8					
	Cr Offset1	For Main 480i/576i	4	15	8					
	Y out level	For Main 480i/576i	4	63	15					
	C out level	For Main 480i/576i	4	63	15					
	Sharpness Gain	For Sub 480i/576i	4	15	10	<u> </u>				
	Sharpness EQ	For Sub 480i/576i	4	3	1				-	
	Sharpness f0	For Sub 480i/576i	4	3	1					
	Cb Offset1	For Sub 480i/576i	4	15	8					
	Cr Offset1	For Sub 480i/576i	4	15	8					
	Y out level	For Sub 480i/576i	4	63	15				-	
	C out level	For Sub 480i/576i	4	63	15				_	
	Offset value of adjusted TINT for impact to No.42-45	For COMPAL factory	4	20	11					
	Use item No.724 0:No , 1:Yes	For COMPAL factory	4	1	0					
	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
-	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
	Free		4	-	-					
	Free		Ц	-	-					
	Free		4	-	-					
	Free		\perp	-	-					
	Free		J	-	-					
	Gain adjustment of RGB amplifier (FLAON)	Main	J	-	-	0			0	
	Gain adjustment of RGB amplifier	Sub	Ī		-	0			0	
742	Automatic White Peak Adj.	Single Picture mode	J	-	-	0			0	
743	Automatic White Peak Adj.	Multi Picture mode	J	-	-	0			0	
	EEPROM Initialize(0:No, 1:Yes)		┚	1	0					
	Enter to service menu of sub mi-con		7	-	-					
			_							

● The Expression of input signal mode (format)

PAL1: RF, S and Composite of PAL/SECAM

PAL2: Component of PAL (YCBCR)
PAL3: Component of PAL (YPBPR)

PAL4: Component of PAL (YCBCR-SCART)

PAL: PAL1-4

NT1: S and Composite of NTSC NT2: Component of NTSC (YCBCR) NT3: Component of NTSC (YPBPR)

NT4: Component of NTSC (YCBCR-SCART)

NTSC: NTSC1-4

HD1-6: Component (shown in the table→)
HD7: Component of 1080i/50 (YPBPR)
HD8: Component of 1080i/50 (YCBCR)
HD9: Component of 576p (YPBPR)
HD10: Component of 576p (YCBCR)

HD: HD1-10 of Component

TV: NTSC / HD PC: PC signal

	I			
Video System		Judgment of	Video Input	Mode
Input	Gyotom	H.Frequency	Setup	Wiodo
	PAL	15.75kHz	Auto	PAL2
		(576i)	SDTV/DVD	PAL2
			HDTV	PAL3
	NTSC	15.75kHz	Auto	NT2
		(480i)	SDTV/DVD	NT2
			HDTV	NT3
	PAL	31.25kHz	Auto	HD10
		(576p)	SDTV/DVD	HD10
			HDTV	HD9
AV1	NTSC	31.50kHz	Auto	HD3
AV1 AV2		(480p)	SDTV/DVD	HD3
AVZ			HDTV	HD2
	NTSC	45.00kHz	Auto	HD5
		(720p)	SDTV/DVD	HD6
			HDTV	HD5
	PAL	28.125kHz	Auto	HD7
		(1080i)	SDTV/DVD	HD8
			HDTV	HD7
	NTSC	33.75kHz	Auto	HD1
		(1080i)	SDTV/DVD	HD4
		, ,	HDTV	HD1

Factory Reset

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

Press the SUB-POWER(\bigcirc I) button, INPUT SELECT(\bigcirc I) button and \blacktriangle button at the same time, and hold for more than 5 seconds.

The unit is set to factory settings.

Item AUTOMATIC SIGNAL LEVEL ADJUSTMENT -RGB (1)					
	Preparation	Procedure			
` '	he adjustment signal of VGA (60Hz) into RGB2 [D-sub] input terminal.	(1) Select RGB2 and enter the service adjustment mode.			
the ad	The signal level of black area should be pedestal level. This signal must not be inserted characters etc. Black White	(2) Select No.740 "RGB Amp. Gain ADJ." and press OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of "AUTO MODE" disappeared.			

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color. In this case, it will be recovered by re-adjustment in the specified way.

Item	AUTOMATIC SIGNAL LEVEL ADJU	STM	ENT -RGB (2)		
Preparation			Procedure		
format	(1) Input the adjustment signal of 576p or 480p format into AV1 input terminal. the adjustment signal		Select AV1 and enter the service adjustment mode Select No.740 "RGB Amp. Gain ADJ." and press		
	The signal level of black area should be pedestal level. This signal must not be inserted characters etc. Black White	(3)	OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of "AUTO MODE" disappeared. Select No.741 "RGB Amp. Gain ADJ." and press OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of "AUTO MODE" disappeared.		

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color. In this case, it will be recovered by re-adjustment in the specified way.

	Item COLOR TEMPERATURE ADJUSTMENT -VIDEO					
Preparation			Procedure			
(1)		T COLOR ANALYZER(CA-210) at the of the screen panel.	[Adjustment of Cool mode] (1) Enter the service adjustment mode, and confirm that Adjustment NO 0,1 are set as 230. NO2 is set as 255. If initial x and y value are larger than specification,			
(2)	compor Signa 48 Vic Sy Se	ne full-white raster signal to AV1 nent terminal and select AV1. al condition 0i component deo level: 0.56Vp-p nc level: 0.286Vp-p tup level: 0V	No.0:R drive(cool) will be adjusted(decrease from 230) No.1:G drive(cool) will be adjusted(decrease from 230) No.2:B drive(cool) is set as 255 If initial x or y value is smaller than specification. No2:B drive(cool) will be adjusted(decrease from 255), until one of x,y is in spec and another value is higher than spec. (* When both x and y are in spec value, it is end of adjustment) According to a x and y value, the following adjustment of (3)-1 or (3)-2. (3)-1 If x value is higher than spec. No.0:R drive(cool) will be adjusted(decrease from 230) (3)-2 If y value is 6higher than spec, No1:G drive(cool) will be adjusted(decrease from 230)			
(3)	Set the	diaplay size to "Full". Contrast mode of picture menu "Auto". Picture mode of Picture menu "Dynamic".	*No.0:R or No.1:Fshould be set as 230 *Specification> Color Temperature (Cool) for Video 25000K-6MCD x=0.257±0.005 y=0.256±0.005 [Adjustment of Normal mode] No Adjustment. (11000K) Adjustment No.3,4 and 5 are set as 230.			
			[Adjustment of Warm mode] Enter the service adjustment mode, and confirm that Adjustment NO.6,7 and 8 are all set as 230. In factory setting mode No.8:B drive(warm) will be adjusted(decrease from 230), until one of x,y is in spec and another value is higher than spec. (* When both x and y are in spec value, it is end of adjustment) According to x and y value, the following adjustment of (5)-1 or (5)-2. (5)-1 If x value is higher than spec. No.6:R drive(warm) will be adjusted(decrease from 230) (5)-2 If y value is higher than spec, No7:G drive(warm) will be adjusted(decrease from 230) No.6 or No.7:Fshould be set as 230. Specification> Color Temperature (Warm) for Video			
			[Adjustment of Black / White mode] [Adjustment of Black / White mode] [Enter the service adjustment mode, and confirm Adjustment NO.9,10 and 11 are all set as 230. In factory setting mode No.11:B drive(B/W) will be adjusted(decrease from 230), until one of x,y is in spec and another value is higher than spec. (* When both x and y are in spec value, it is end of adjustment.) According to x and y value, the following adjustment of (7)-1 or (7)-2. (7)-1 If x value is higher than spec. No.9:R drive(B/W) will be adjusted(decrease from 230) (7)-2 If y value is higher than spec, No.10:G drive(B/W) will be adjusted(decrease from 230) No.9 or No.10:should be set as 230. <specification> Color Temperature (B/W) for Video 5400K x=0.335 ± 0.005 y=0.343 ± 0.005</specification>			

Propagation Procedure	
rieparation	Flocedule
Preparation	It is same as color temperature adjustment data of video. Write the data which are inside drive No0 to No11 into drive N0.12 to No.23 respectively. Example. [at VIDEO] [at PC] No.0 'data' → No.12 'data' No.1 'data' → No.13 'data' No.2 'data' → No.14 'data'

5. Troubleshooting

● How to get to Burn-in mode

This mode displays the test patterns of some single color raster in turn. These signals are from built-in generator of LCD monitor.

Using the front control buttons with the set turned off (standby) can activate this mode.

Press the SUB-POWER(\bigcirc I) button, INPUT SELECT(\bigcirc I) button and VOLUME DOWN(\bigcirc I) button at the same time, and hold for more than 5 seconds.

The set turns on with single color raster and the OSD of [BURN IN: ON].

To escape from this mode, press the SUB-POWER(\bigcirc I) button, INPUT SELECT(\bigcirc I) button and \triangle button at the same time, and hold for more than 5 seconds. Burn-in mode will be released.

• How to recover the remote and front key function

If remote and front key cannot operate after miss set special function by front keys, these functions can recover by below method.

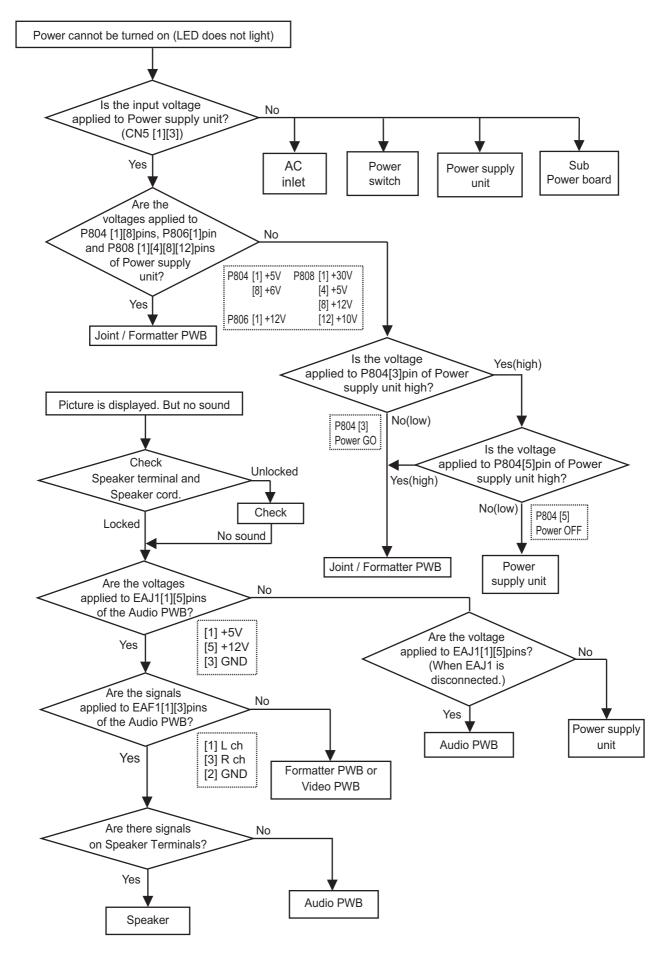
Press the SUB-POWER(⊕) button, INPUT SELECT(⊕) button and ▶ button at the same time, and hold for more than 5 seconds.

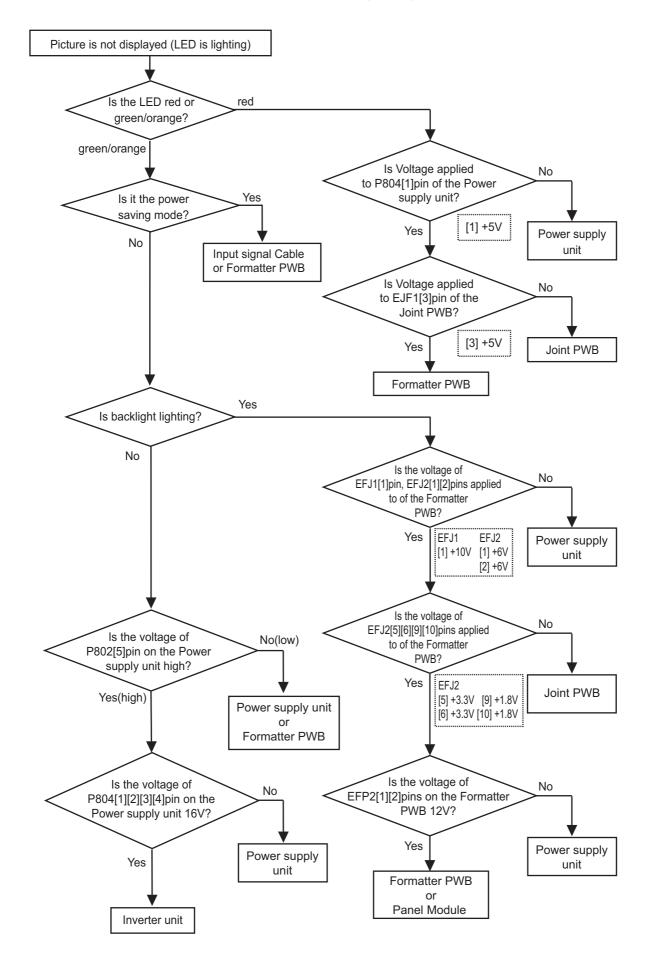
The set turns on the service menu mode.

Select No.175 and data set from [0] to [1].

Or

Press the SUB-POWER(إل) button and ▶ button at the same time, and hold for more than 5 seconds





6. Self-Diagnosis Function

Signal circuit check mode: It indicates the check result on some points of the signal circuit and the history of them with On-Screen Display (OSD).

Signal circuit self-diagnosis function

This function is for the failure of the signal circuit, for example the phenomenon as below:

"Sometimes power turns off abnormally." "Sometimes picture disappears abnormally."

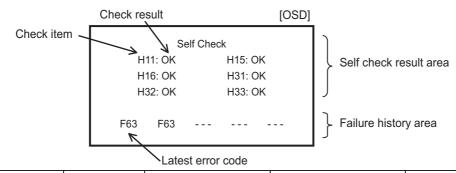
To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER((b)) button of the monitor or the remote control.

Drocoduro

- 1) Press the SUB-POWER((\odot)) button and \triangle button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) The monitor will be turned on, and it will display On-Screen Display of the Self-check result and the failure history as below.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The following table shows the OSD symbols and contents of failure PWB in which failure most probably would be allocated according to the number of blinks.



Code	stored up in	Self checking	Problem	Phenomenon	Cause
	failure history	item			
C10 ^{(*}	_	_	No sync. (Snow noise)	OSD of "! Check Antenna"	No connection of ANT cable
				appears.	Preset tuning is not yet
H11 ^{(*}	_	0	Tuner problem	Cannot receive the main	Communication error of U101
				signal from antenna	
H15	_	0	Composite video SW IC	Cannot receive picture and	Communication error of I201
			problem	audio	
				Cannot change input mode	
H16	_	0	Component video SW IC	No component picture	Communication error of I202
			problem	Cannot change input mode	
H31	_	0	Color demodulator IC	Abnormal color	Communication error of I501
			problem	Dark picture	
H32	_	0	Sync. separator IC	Unsynchronized picture	Communication error of I601
			problem		
H33	_	0	3D Y/C separator IC	Abnormal color	Communication error of I302
			problem	Dark picture / No picture	
H71 ^{(*}	_	0	T/Text IC problem	No T/Text	Communication error of IT01
				No picture	
H72 ^{(*}	_	0	Sound MPX IC problem	No sound from antenna	Communication error of IN01
				Cannot change MPX	
				sound	
F63	0	_	I ² C-bus latch problem	Cannot store setting data	SCL3/SDA3 latched up
				(Ex. Channel, Volume etc.)	

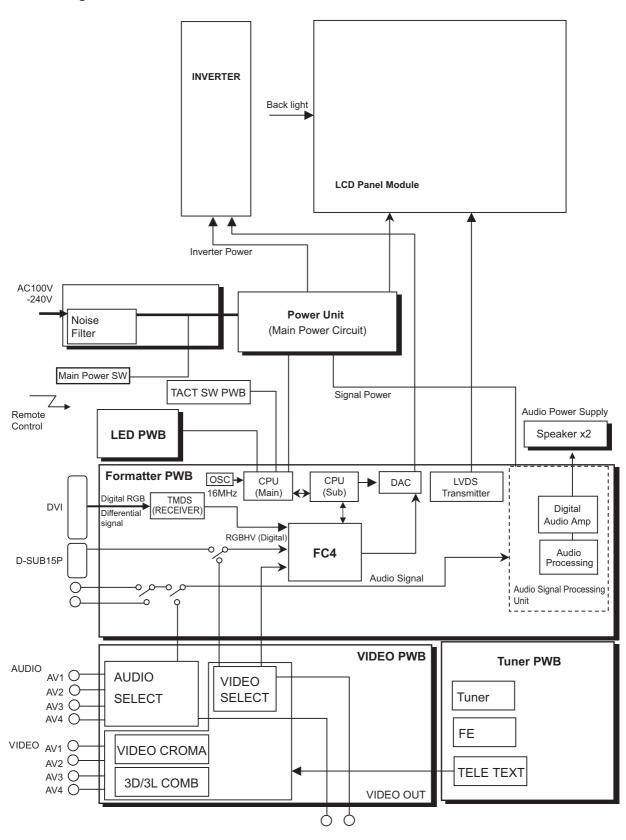
^{*)} This code is no meaning for the models except 32/42PD5000TA because those are without tuner circuit.

If you clear history of failure, make FACTORY RESET: enter the factory setting mode; press the SUB-POWER(\bigcirc) button, INPUT SELECT(\bigcirc) button and \blacktriangle button on the bottom of the monitor at the same time. And keep it for more than 5 seconds after the power turned on.

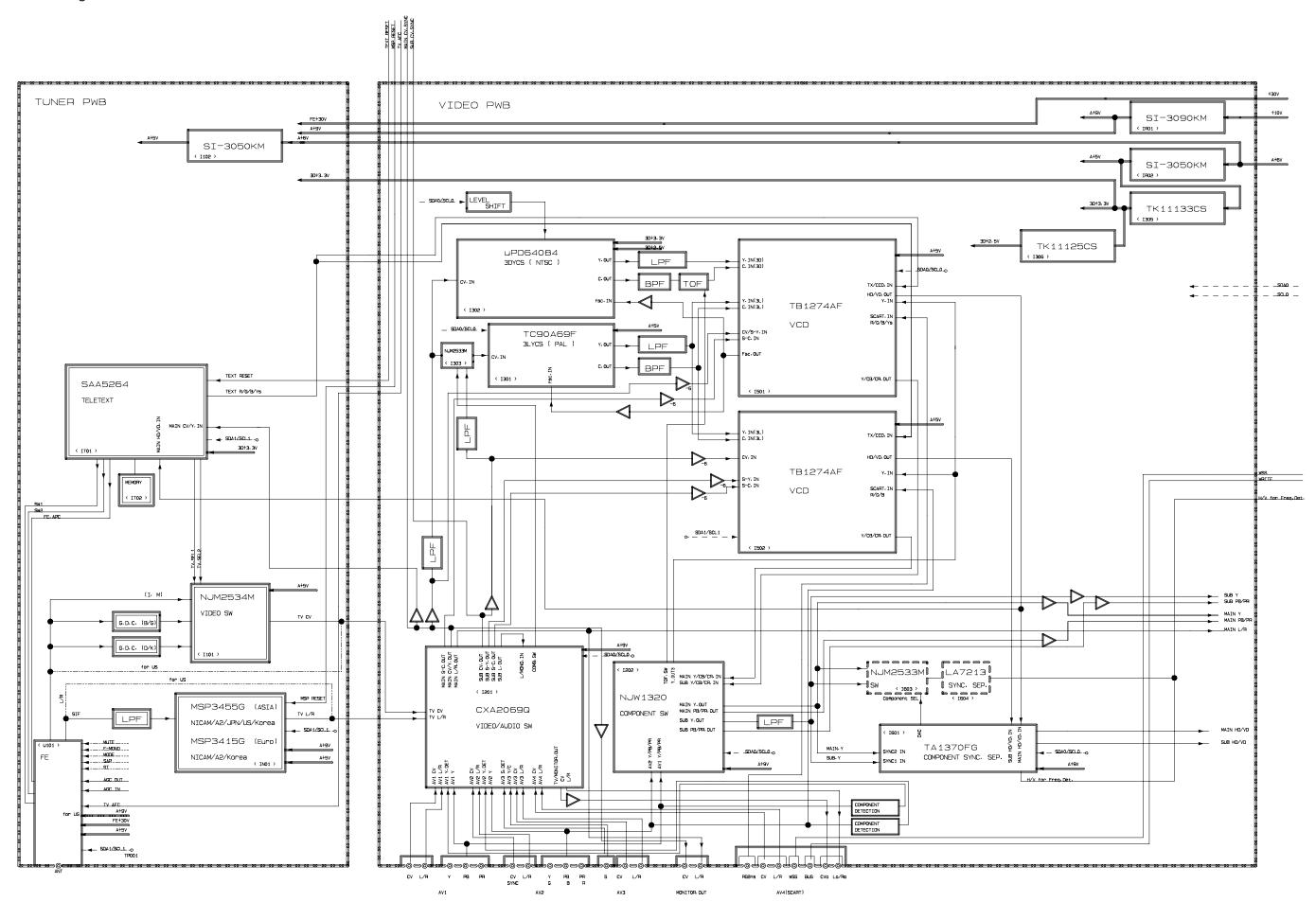
THE UPDATED PARTS LIST FOR THIS MODEL IS AVAILABLE ON ESTA

8. Block diagram

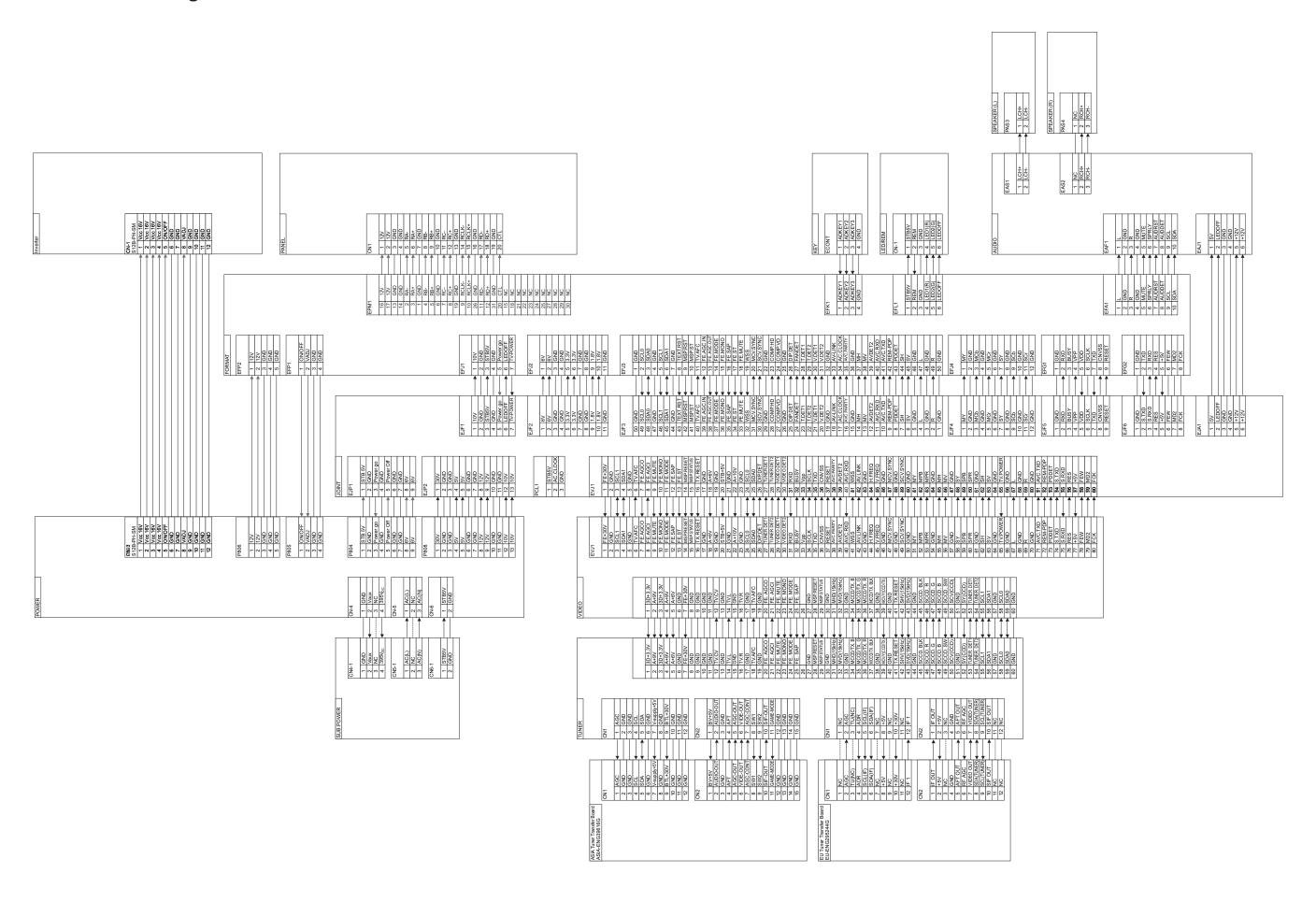
Block diagram 1/2



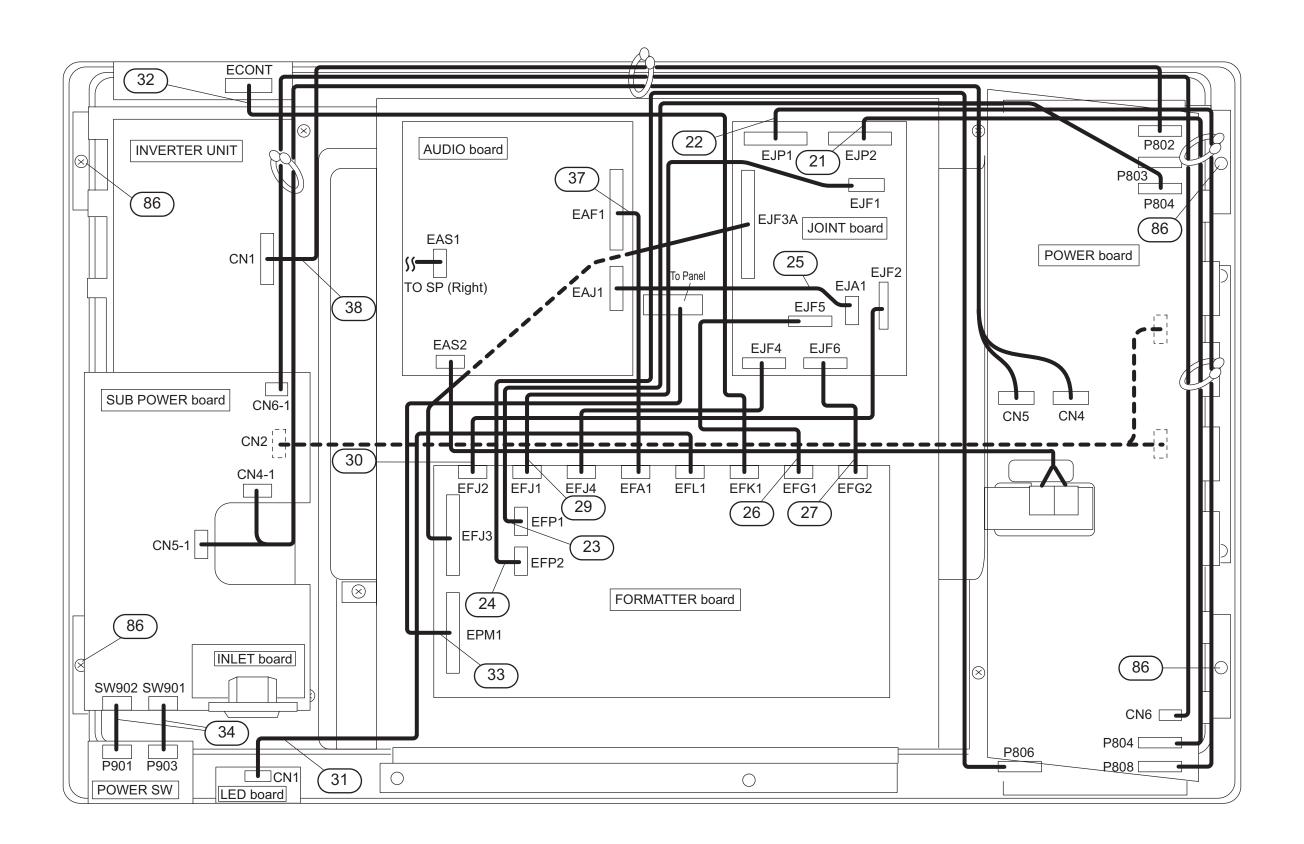
Block diagram 2/2



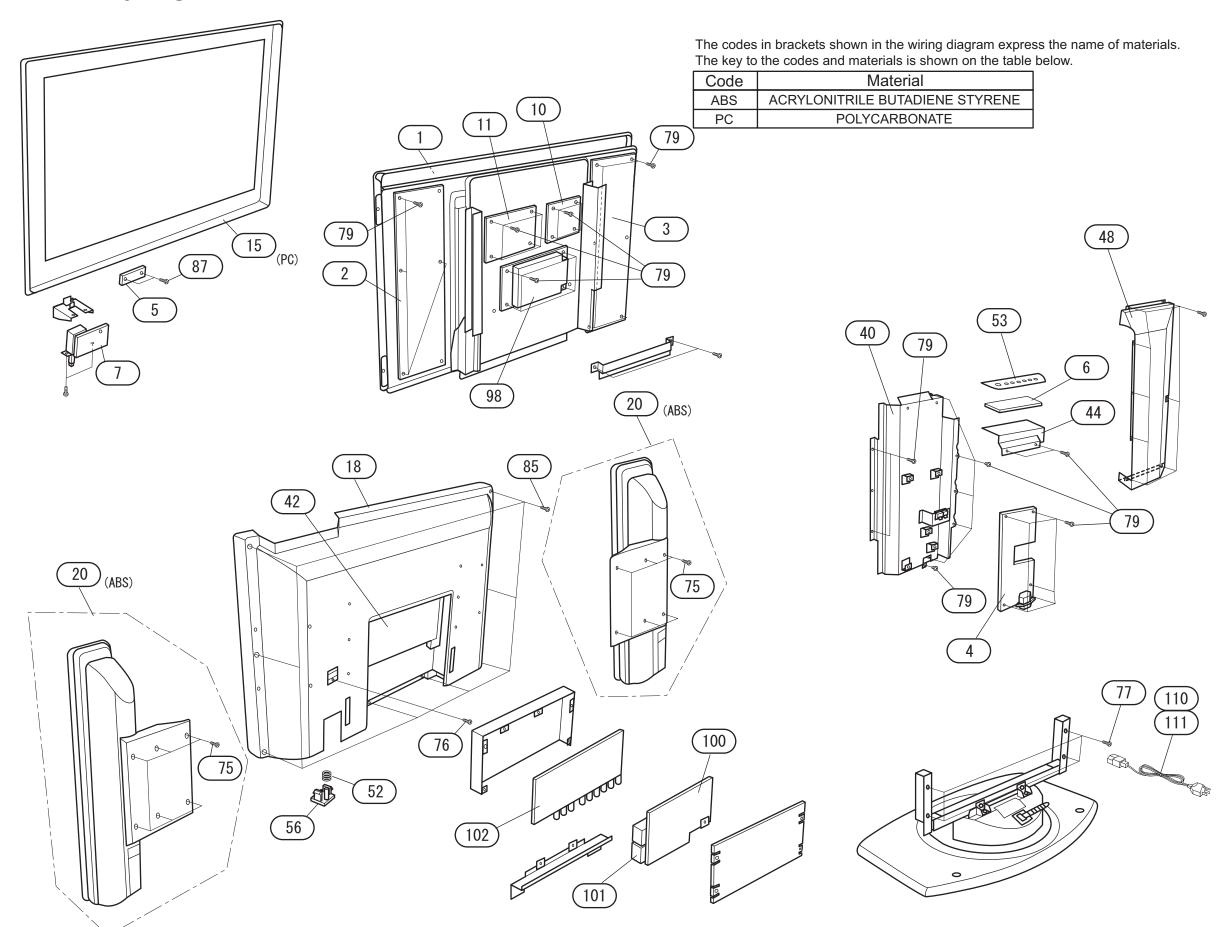
9. Connection diagram



10. Wiring diagram



11. Disassembly diagram



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